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Designing data collection for decision-making: shaping the coastal First Nations regional monitoring system to meet the needs of the Nations

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Olson, Erica; Connors, Brendan; Hoshizaki, Lara; Kotaska, Jana; Pickard, Darcy; Nelitz, Marc; Groesbeck, Amy; Benner, Jordan; Kellock, Katherine; and Pitts, Anton, "Designing data collection for decision-making: shaping the coastal First Nations regional monitoring system to meet the needs of the Nations" (2018). *Salish Sea Ecosystem Conference*. 532.

<https://cedar.wvu.edu/ssec/2018ssec/allsessions/532>

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Speaker

Erica Olson, Brendan Connors, Lara Hoshizaki, Jana Kotaska, Darcy Pickard, Marc Nelitz, Amy Groesbeck, Jordan Benner, Katherine Kellock, and Anton Pitts

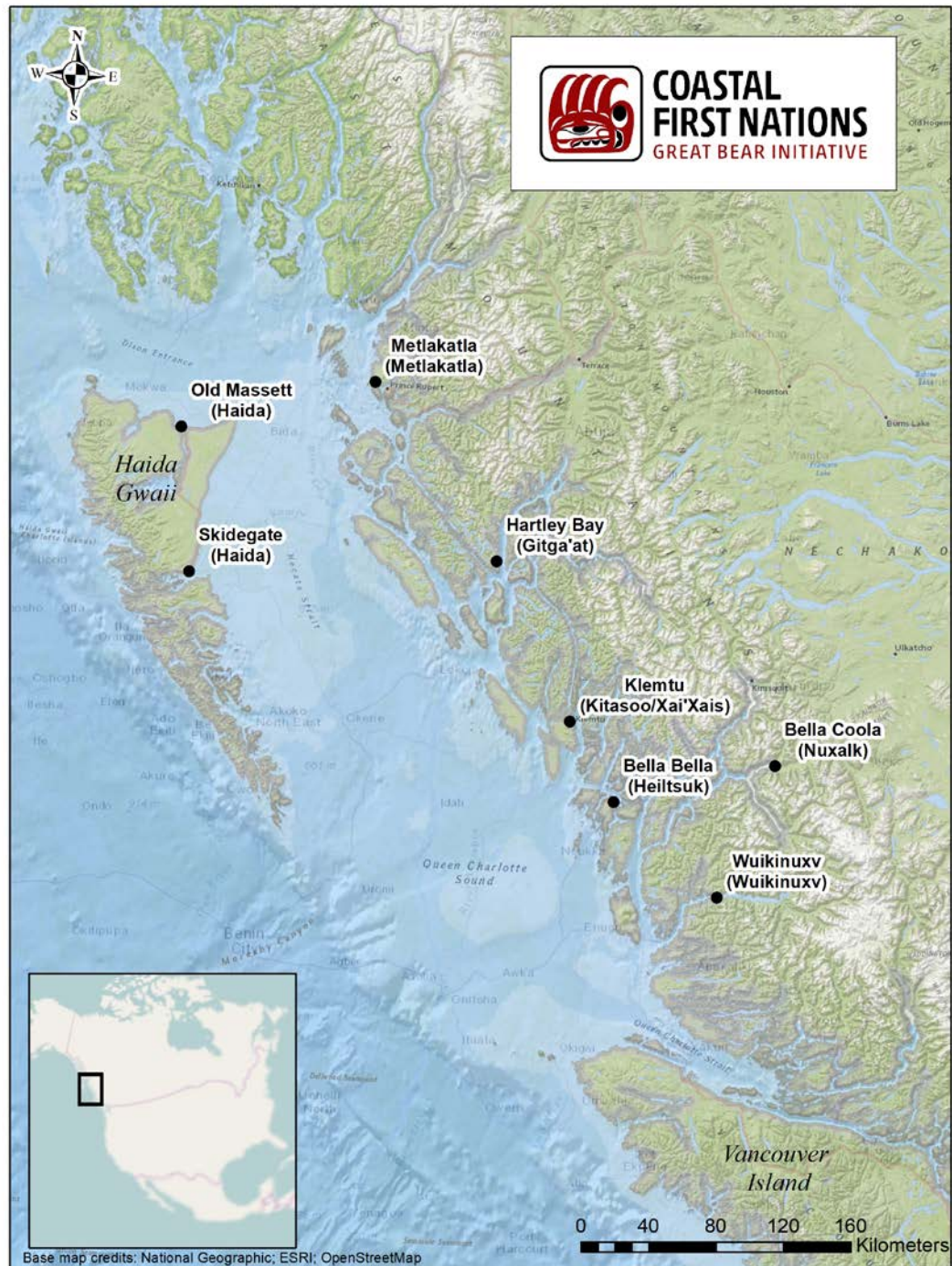
Designing Data Collection for Decision-Making: Shaping the Coastal First Nations Regional Monitoring System to meet the needs of the Nations

Erica Olson
April 6, 2018



**COASTAL
FIRST NATIONS**
GREAT BEAR INITIATIVE







REGIONAL MONITORING SYSTEM

GOALS



REGIONAL
STANDARDIZED DATA
COLLECTION



COLLABORATION
BETWEEN NATIONS



GUARDIAN WATCHMEN
CAPACITY, LEGITIMACY,
AUTHORITY



ENGAGEMENT
WITH RESOURCE
USERS





REGIONAL MONITORING SYSTEM



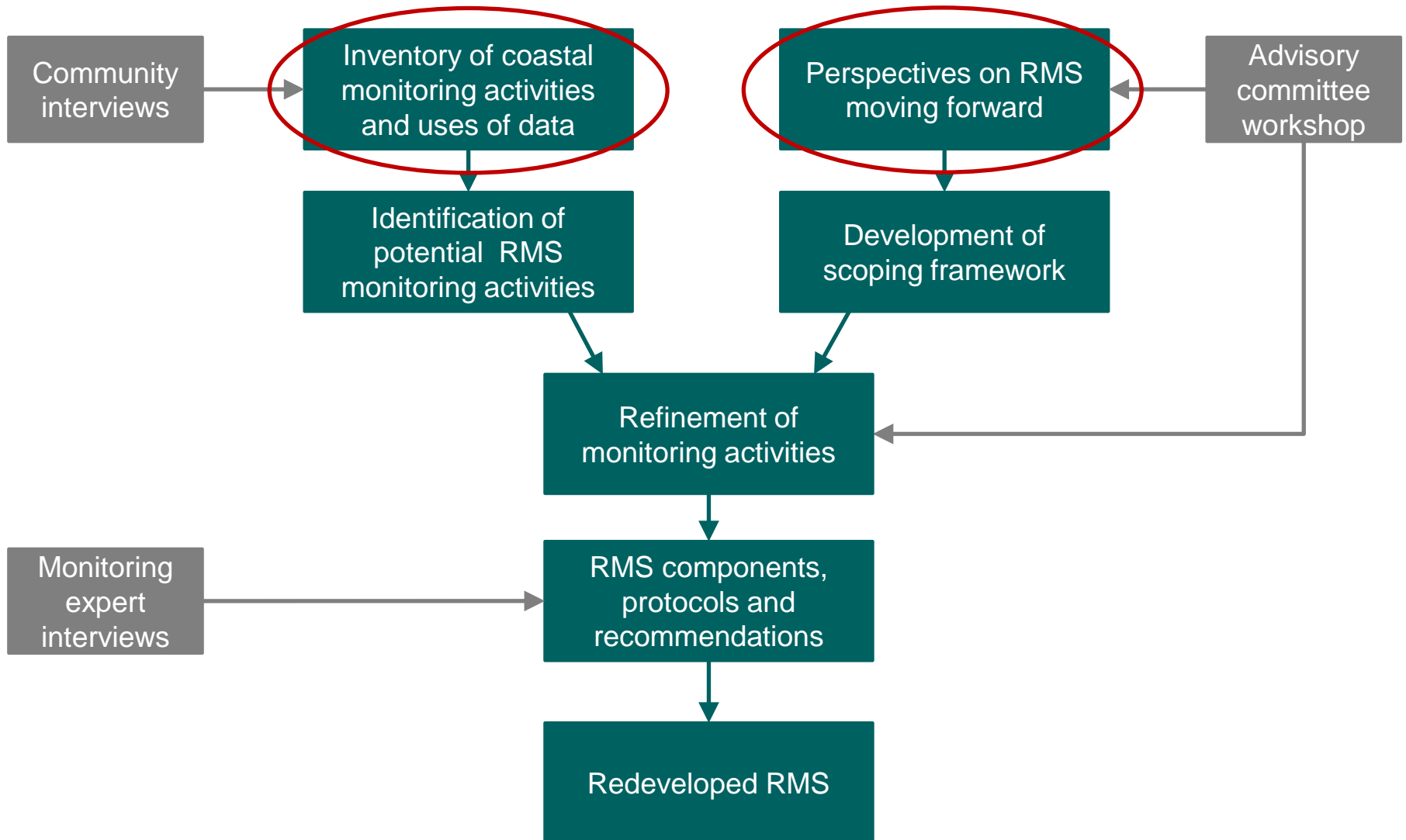
2013 – RMS evaluation

Recommendation: redevelop the RMS to ensure it meets the needs of the Nations at multiple scales

2015 – Began RMS redevelopment



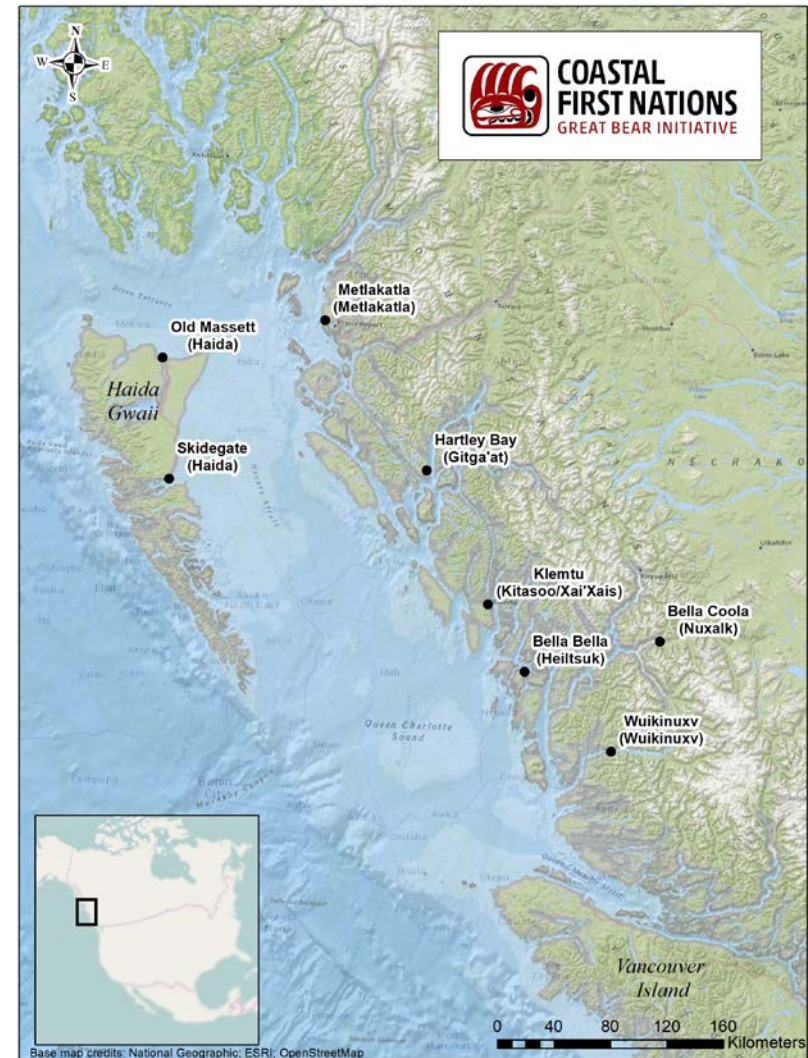
RMS Redevelopment Process



Inventory of coastal monitoring activities and uses of data



- Document review
- Interviews
- Documented information on monitoring activities currently done and desired



Inventory of coastal monitoring activities and uses of data



For each monitoring activity

- Data type
- Why are data useful?
- Who wants data collected?
- Who collects data and how do they do it?
- Data collection protocols used
- Who uses data and how?
- Barriers to data collection
- Priority rank compared to other monitoring activities
- Ability to share data with other Nations



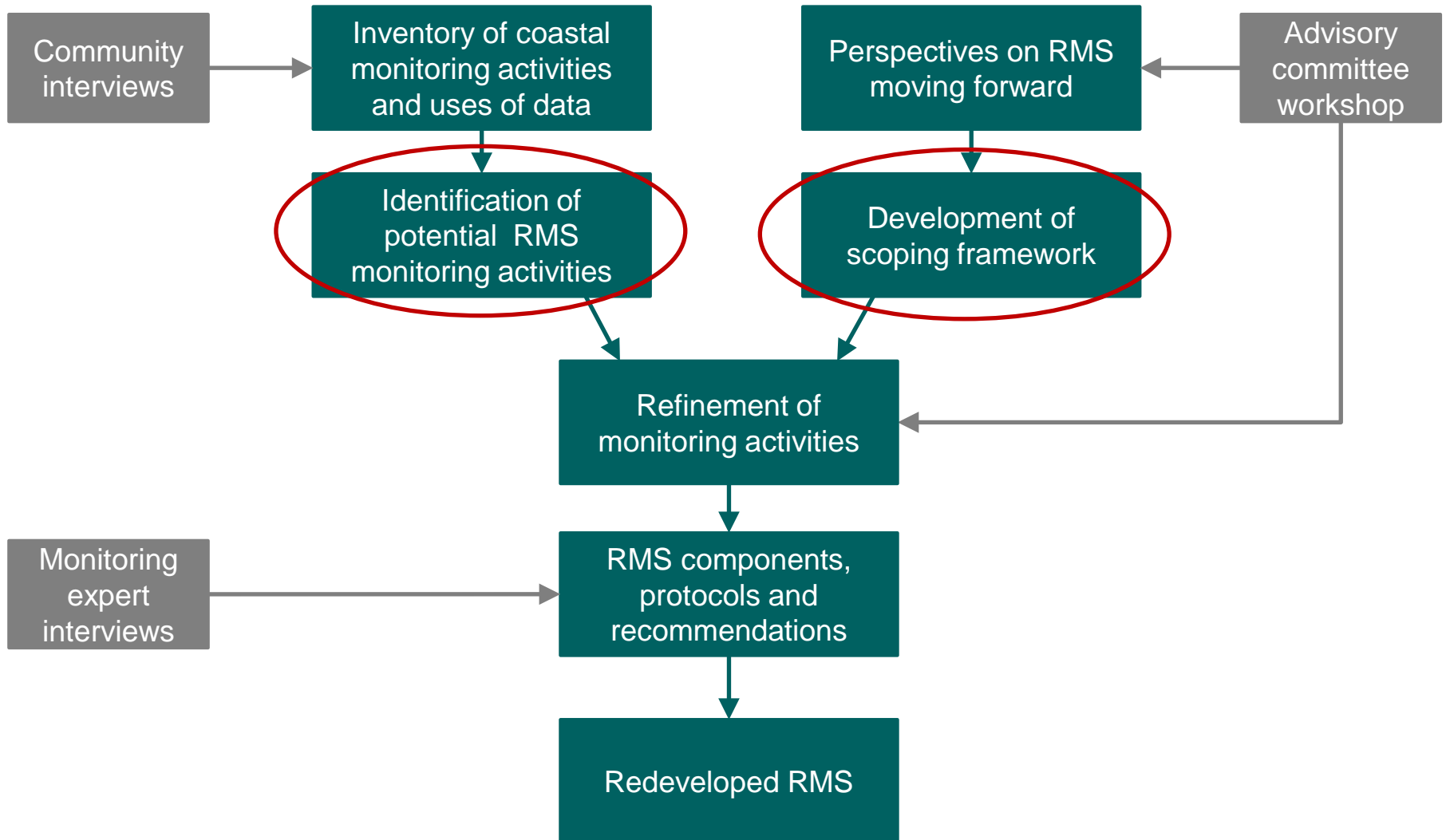
Inventory of coastal monitoring activities and uses of data

| Monitoring activity | | | Description of activity |
|---------------------|-------------------|--|-------------------------|
| Marine & Freshwater | Ecological Status | | |
| | | | |
| | | | |
| | Human Use | | |
| | | | |
| | | | |
| All | Ecological Status | | |
| | | | |
| | | | |
| | Human Use | | |
| | | | |
| | | | |
| Land | Ecological Status | | |
| | | | |
| | | | |
| | Human Use | | |
| | | | |
| | | | |

- Valued components
- Decision-making processes



RMS Redevelopment Process





Scoping Framework

Purpose:

To organize current and desired monitoring activities based on whether the RMS is the appropriate tool for supporting them.



Scoping Framework

9 Criteria:

Feasibility and suitability

- Barriers
- Suitability
- Internal Capacity
- Collaboration

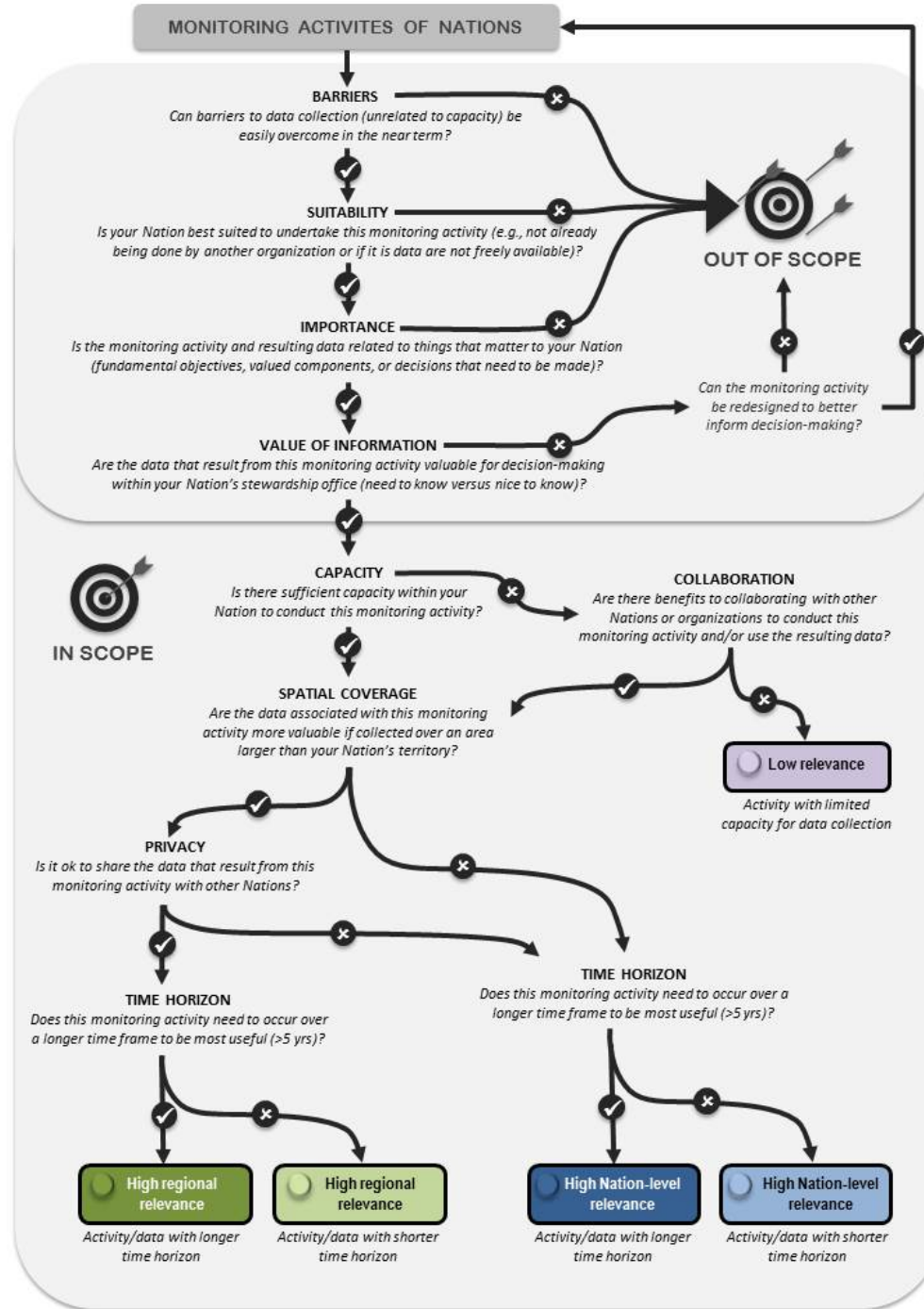
Scientific basis of information

- Value of information

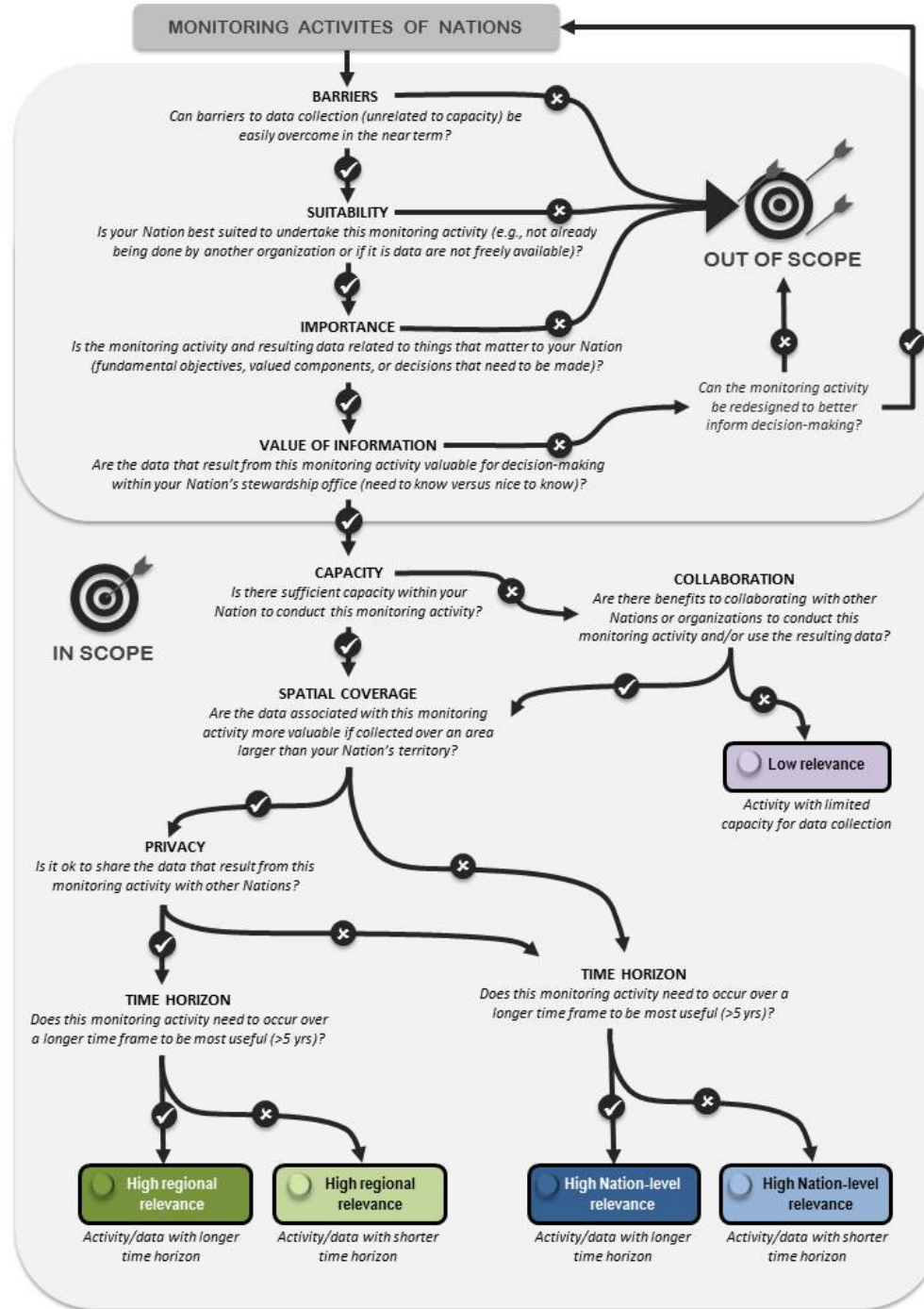
Relevance

- Importance
- Time horizon
- Spatial coverage





Each
Nation:





Scoping Framework - Results

Across Nations:

In scope – high regional relevance

- All Nations
- Most Nations
- Some Nations

In scope – high Nation-level relevance

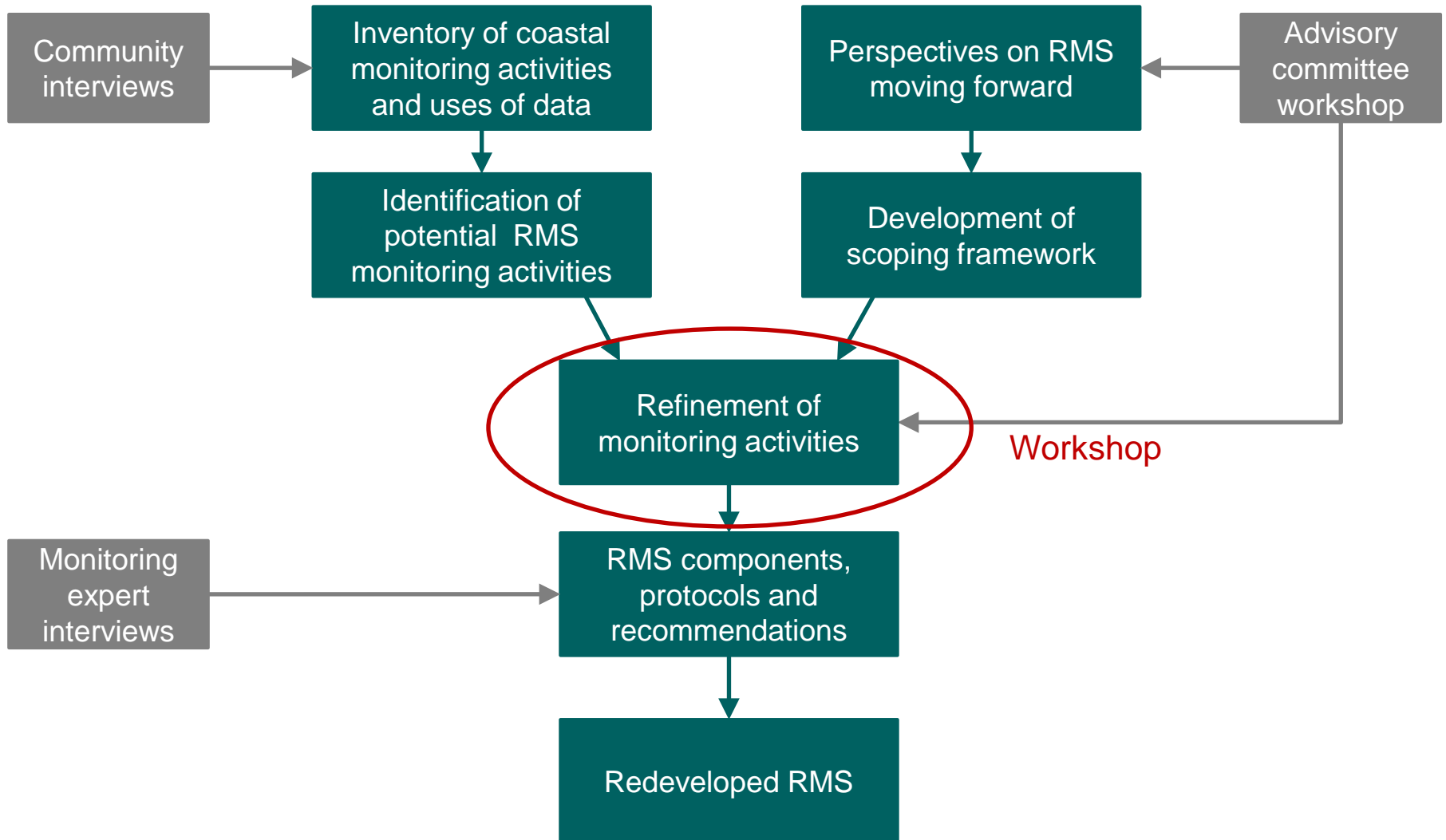
- All Nations
- Most Nations
- Some Nations

In scope – low relevance

- Most Nations
- Some Nations



RMS Redevelopment Process





Workshop

Purpose:

- Advisory committee review of scoping framework and monitoring activities identified
- Understand commonalities across Nations around monitoring activities of high relevance to the RMS
- Identify list of RMS monitoring activities around which to conduct additional research and develop monitoring recommendations



Workshop

Sessions:

- Visions for the RMS into the future
- Common motivations for, and interests in, monitoring across Nations



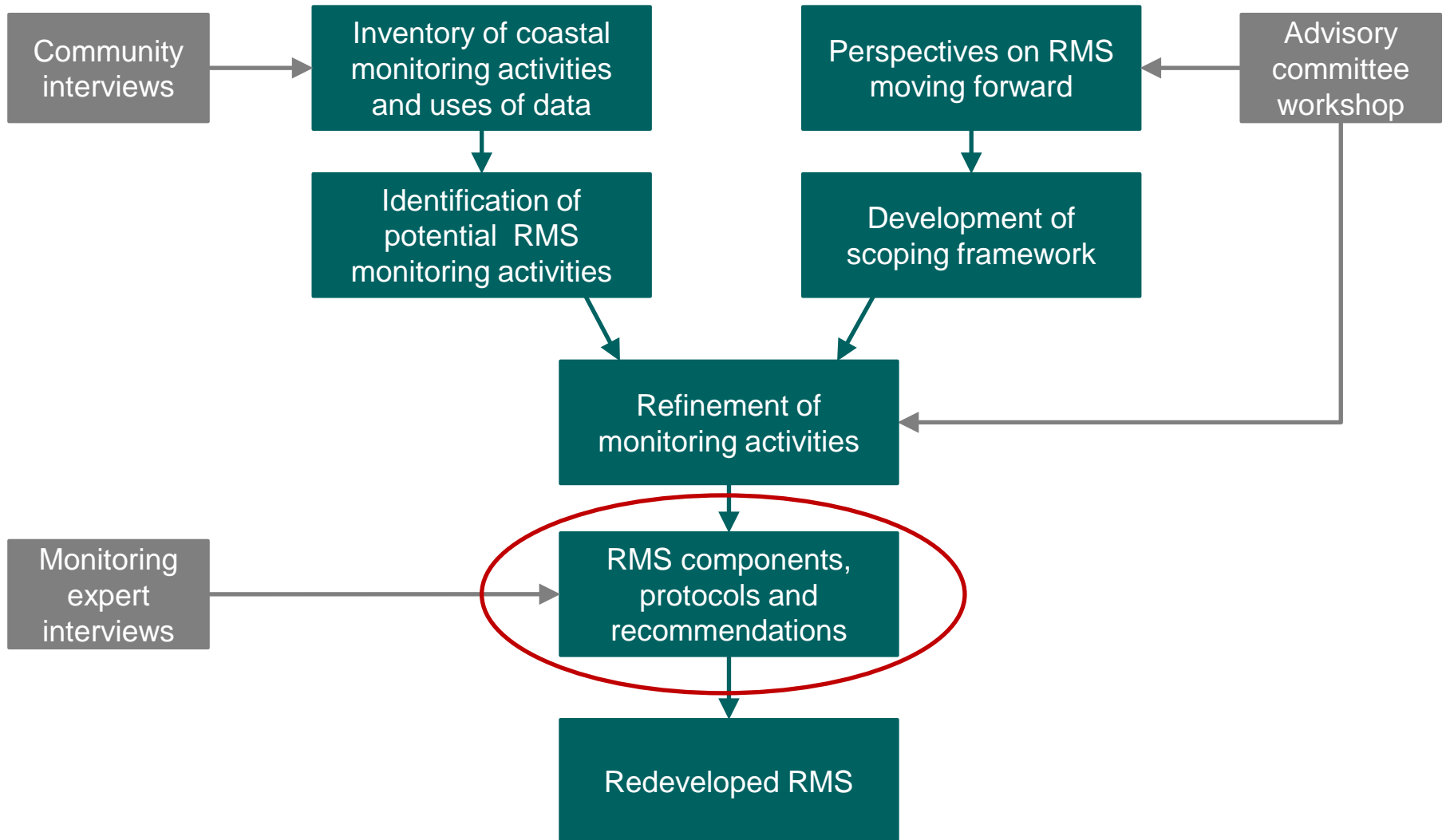
Workshop

Sessions:

- Visions for the RMS into the future
- Common motivations for, and interests in, monitoring across Nations
- Sub-groups to identify top ten monitoring activities
 - Both groups: Dungeness crab, Invasive species, Wildlife sightings, etc.
 - One group: Climate indicators, Herring, etc.



Redevelopment Process

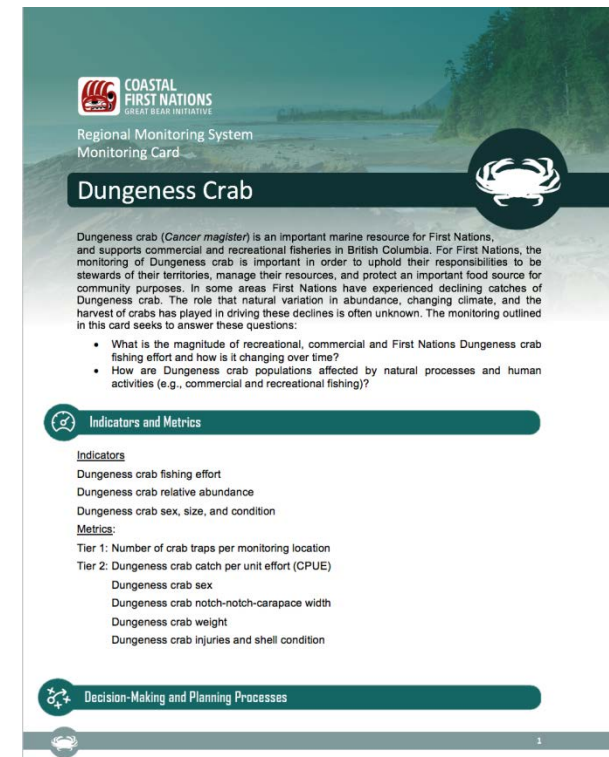




Monitoring Cards

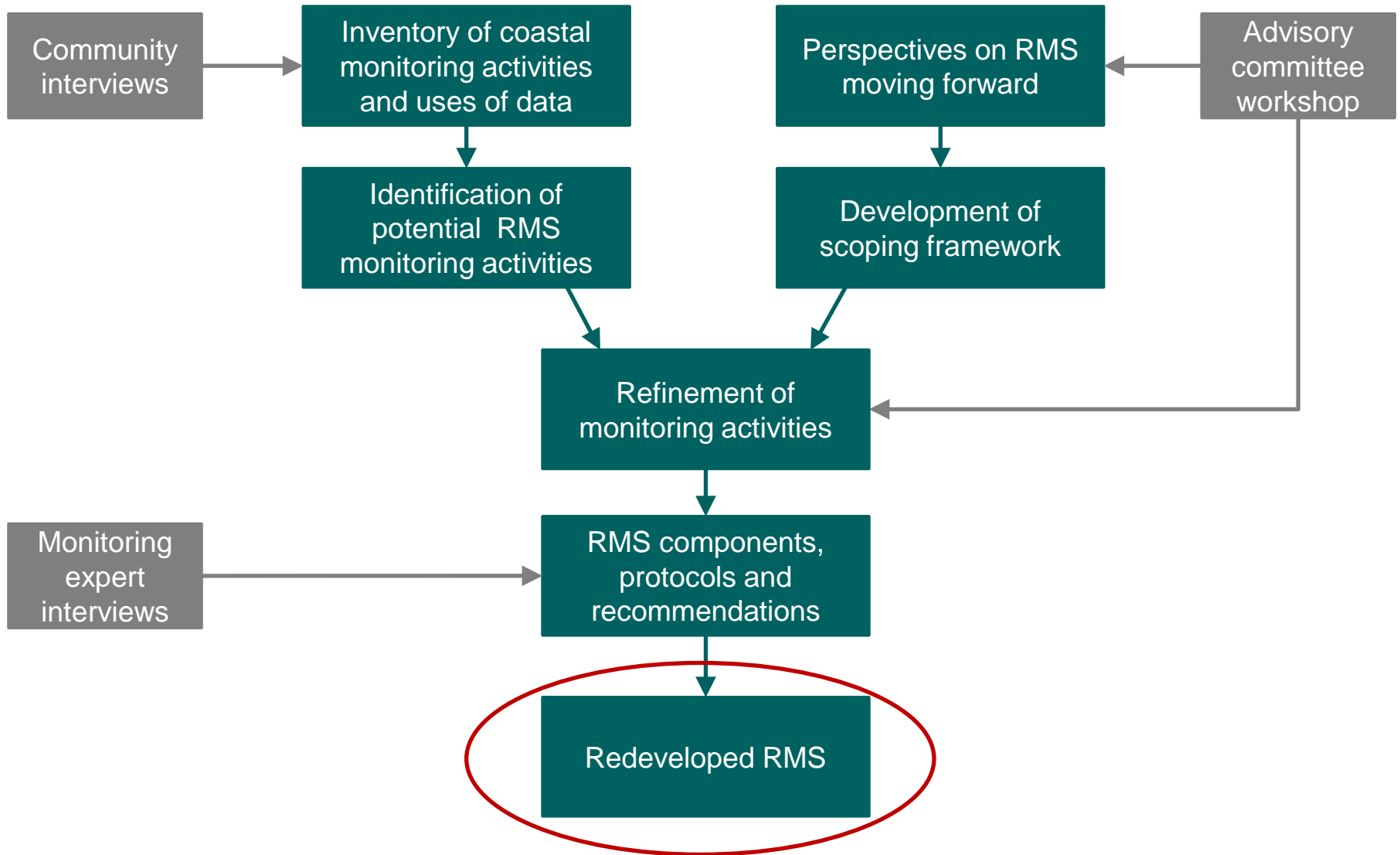
Each card:

- Description of monitoring activity, why important to Nations, and question(s) card is aimed at answering
- Indicators and metrics
- Decision-making and planning processes
- Methodology considerations
- Data analysis and reporting considerations
- Implications for stewardship office departments or programs
- Linkages to established programs and potential collaborators
- DMS considerations
- References





Redevelopment Process





Acknowledgements

- *RMS Advisory Committee, including members of:*
 - *Haida Nation Stewardship Department*
 - *Metlakatla Stewardship Society*
 - *Kitasoo/Xai'xais Integrated Resource Authority*
 - *Heiltsuk Integrated Resource Management Department*
 - *Wuikinuxv Stewardship Office*
 - *Nuxalk Stewardship Office*
 - *Nanwakolas Tribal Council*
- *All who participated in interviews*
- *Coastal Stewardship Network staff*



Thank you!

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